The Leibniz-Ifa Connection: How African Binary Mathematics Traveled Through the I Ching to Become the Foundation of Modern Computing

Author: Oluwo Jolaoso Osainbola (Ajarn Shaman Shu) **Affiliation:** Orisha University Press; OrishaUniversity.com **Copyright:** OrishaUniversity.com 2026 **Series Note:** This article is a companion to the Yoruba Spiritual Reparations Series

Abstract

The pervasive architecture of modern computing relies entirely on the binary numeral system, a mathematical framework widely attributed to the seventeenth-century German polymath Gottfried Wilhelm Leibniz. However, the historical trajectory of binary logic extends far beyond the European Enlightenment, possessing deep roots in ancient non-Western epistemologies. This article investigates the profound, interconnected lineage of binary mathematics, tracing its origins from the sophisticated Ifa divination system of the Yoruba people in West Africa, through the philosophical framework of the ancient Chinese I Ching, to its eventual formalization by Leibniz. By examining the structural parallels between the 256 Odu of Ifa, the 64 hexagrams of the I Ching, and Leibniz's base-2 arithmetic, this research posits that the foundational source code of artificial intelligence is inextricably linked to ancestral intelligence. Drawing upon the scholarship of Frobenius, Bascom, Abimbola, and Dr. Yosef ben-Jochannan, alongside historical analyses of Leibniz's correspondence, this study demonstrates that African binary mathematics represents a critical, yet often marginalized, chapter in the history of computer science. The article further contextualizes these findings within the framework of the forthcoming book, *THE ORIGINAL AI: Ancestral Intelligence — The 256 Odu of Ifa, The Source Code That Predates Artificial Intelligence*, arguing for a paradigm shift that recognizes the indigenous African origins of computational thinking.

Keywords: Leibniz binary, I Ching binary code, Ifa mathematics, African origins of computing, ancestral intelligence, Yoruba divination, history of mathematics, computer science origins.

1. Introduction

The digital revolution, which has fundamentally transformed every aspect of contemporary human existence, is built upon a remarkably simple yet infinitely powerful foundation: the binary numeral system. This system, utilizing only two states—typically represented as 0 and 1—forms the underlying logic for all modern computing, from the simplest calculators to the most advanced artificial intelligence algorithms. In the standard narrative of the history of science and mathematics, the invention of the binary system is almost exclusively credited to the German philosopher and mathematician Gottfried Wilhelm Leibniz, who formalized base-2 arithmetic in his 1703 publication, *Explication de l'Arithmétique Binaire* [1]. Leibniz's work laid the theoretical groundwork that, centuries later, would be practically implemented in electronic circuits by pioneers like John von Neumann [2].

However, this Eurocentric historiography obscures a much older and more complex global narrative. Long before Leibniz articulated his binary theories, sophisticated systems of binary logic were actively employed in non-Western cultures, serving not merely as abstract mathematical exercises, but as profound tools for philosophical inquiry, cosmological mapping, and practical decision-making. The most prominent among these are the ancient Chinese divination text, the I Ching (Book of Changes), and the Ifa divination system of the Yoruba people in West Africa. Both systems utilize complex binary structures to model the universe and guide human action, demonstrating an advanced understanding of algorithmic thinking millennia before the advent of the digital age [3] [4].

This article explores the historical and structural connections between these ancient knowledge systems and the modern binary code. It argues that the foundational mathematics of computing did not emerge *ex nihilo* in seventeenth-century Europe, but rather represents the culmination of a long intellectual lineage that can be traced back to African ancestral intelligence. By examining the mathematical intricacies of the Ifa system, its structural parallels with the I Ching, and Leibniz's documented engagement with Chinese philosophy, this research seeks to illuminate the African origins of computing. This exploration serves as a companion to the comprehensive analysis presented in the book *THE ORIGINAL AI: Ancestral Intelligence — The 256 Odu of Ifa, The Source Code That Predates Artificial Intelligence* [5], aiming to restore the Yoruba intellectual tradition to its rightful place in the global history of science and technology.

2. Gottfried Wilhelm Leibniz and the Formalization of Binary

Gottfried Wilhelm Leibniz (1646–1716) stands as a monumental figure in the history of Western thought, renowned for his profound contributions across philosophy, mathematics, logic, and even engineering. His intellectual pursuits were characterized by a

relentless quest for universal principles and a unified system of knowledge. Among his most enduring mathematical legacies is the formalization of the binary numeral system, a concept he developed independently and meticulously documented in his 1703 treatise, *Explication de l'Arithmétique Binaire* [1]. Leibniz envisioned binary arithmetic not merely as a mathematical curiosity, but as a universal language capable of simplifying complex calculations and embodying profound philosophical truths, particularly his concept of creation from nothingness (represented by 0 and 1) [6].

Leibniz's journey into binary arithmetic began much earlier than his encounter with the I Ching. Historical accounts indicate that he had been developing his binary system for over two decades, with initial manuscripts dating back to 1679 [7]. His independent development of this system underscores his genius and his unique approach to mathematical logic. He saw in binary a powerful tool for logical reasoning and a potential foundation for a universal characteristic language, a concept central to his philosophical project.

The pivotal moment connecting Leibniz to ancient non-Western binary systems occurred around 1701, through his correspondence with the Jesuit missionary Joachim Bouvet, who was then in China. Bouvet, having studied the ancient Chinese text, the I Ching, recognized a striking resemblance between its hexagrams and Leibniz's binary system. He sent Leibniz diagrams of the I Ching's 64 hexagrams, arranged in a circular sequence attributed to the Song dynasty philosopher Shao Yong. Leibniz was captivated by this discovery, viewing the I Ching as an ancient confirmation and validation of his own binary arithmetic [8]. He believed that the hexagrams, composed of solid (Yang) and broken (Yin) lines, perfectly corresponded to his 1s and 0s, respectively. This encounter reinforced his conviction that binary was a universal mathematical language, transcending cultural and geographical boundaries [9].

For Leibniz, the I Ching was more than just a mathematical curiosity; it was a profound philosophical text that resonated with his own metaphysical ideas. His monadology, which posited that the universe is composed of simple, indivisible substances (monads), found an echo in the binary system's ability to construct all numbers from just two fundamental units. He saw the binary representation as a symbol of divine creation, where unity (1) and nothingness (0) could generate the entire spectrum of existence [10]. This theological dimension further solidified his belief in the universal significance of binary arithmetic, elevating it beyond a mere computational tool to a reflection of cosmic order. While Leibniz's binary system was largely overlooked during his lifetime, its profound implications would only be fully realized centuries later with the advent of electronic computing [11].

3. The I Ching: An Ancient Chinese Binary System

Predating Leibniz's formalization of binary arithmetic by several millennia, the *I Ching*, or *Book of Changes*, stands as one of the oldest and most revered texts in Chinese culture. Originally a divination manual from the Western Zhou period (1000–750 BC), it evolved into a profound philosophical classic that has influenced Chinese thought for over three thousand years [12]. The *I Ching* offers a complex system for understanding the cosmos, human nature, and the dynamics of change, all encapsulated within a binary structure that remarkably parallels modern computational logic.

At the heart of the *I Ching* are its fundamental components: the Yin and Yang lines. Yin is represented by a broken line (⚋), symbolizing receptivity, darkness, and the feminine principle, while Yang is represented by a solid line (⚊), signifying activity, light, and the masculine principle. These two elemental forms are combined to create trigrams, which are three-line figures, and hexagrams, which are six-line figures. There are eight possible trigrams (2^3 = 8), each with symbolic meanings related to natural phenomena (e.g., Heaven, Earth, Water, Fire, Mountain, Lake, Wind, Thunder) [13].

The true mathematical elegance of the *I Ching* lies in its 64 hexagrams. Each hexagram is formed by stacking two trigrams, resulting in a six-line figure. Since each line can be either Yin or Yang, there are 2^6 = 64 possible hexagrams. These 64 unique configurations represent all possible states and transformations within the universe, forming a complete binary system that maps out a comprehensive cosmology [14]. The sequence and interrelationships of these hexagrams, particularly the circular arrangement discovered by Shao Yong, were what so captivated Leibniz, as they provided an ancient precedent for his own binary system [8].

Beyond its mathematical structure, the *I Ching* serves as a profound philosophical text, offering guidance through its intricate system of symbols and interpretations. Its influence extends to various aspects of Chinese culture, including philosophy, medicine, and art. The antiquity of the *I Ching* and its sophisticated binary framework demonstrate that the concept of representing complex information through a two-state system is not a recent Western invention but a recurring pattern in human intellectual history, developed independently in diverse cultural contexts [15].

4. Ifa Divination: The African Root of Binary Mathematics

While the *I Ching* offers a compelling ancient binary system from East Asia, an even older and equally sophisticated binary system originates from West Africa: the Ifa divination system of the Yoruba people. Ifa is not merely a fortune-telling practice but a comprehensive knowledge system encompassing philosophy, theology, medicine, and mathematics, serving as a cornerstone of

Yoruba culture and intellectual tradition [16]. UNESCO recognized the Ifa divination system as a Masterpiece of the Oral and Intangible Heritage of Humanity in 2005, acknowledging its profound cultural significance and intricate knowledge base [17].

At the core of Ifa is the *Odu Ifa* corpus, a vast body of oral literature comprising 256 principal *Odu*. Each *Odu* represents a specific cosmic principle, a narrative, and a set of ethical guidelines. Mathematically, these 256 *Odu* are generated through a binary process. During divination, a *babalawo* (Ifa priest) casts sixteen palm nuts or uses an *opele* chain, which consists of eight half-nuts or seeds strung together. Each half-nut can land with either its open or closed side facing up, creating a binary outcome. The *babalawo* casts these items to generate a sequence of eight binary choices, resulting in one of 256 possible configurations (2^8 = 256) [18]. These configurations correspond directly to the 256 *Odu Ifa*.

This binary mechanism is not accidental; it is fundamental to the algorithmic and logical sophistication of Ifa. The system employs a complex mathematical structure that allows for the processing of vast amounts of information and the generation of nuanced insights for decision-making. Scholars such as William Bascom [19] and Wande Abimbola [20] have extensively documented the mathematical intricacies and philosophical depth of Ifa, highlighting its systematic approach to knowledge. Earlier researchers like Leo Frobenius [21], Samuel Johnson [22], and Alfred Burton Ellis [23] also provided foundational ethnographic accounts that, while sometimes filtered through colonial lenses, hinted at the profound intellectual underpinnings of Yoruba practices.

Ifa, therefore, represents a powerful example of an an “ancestral intelligence” system, where complex computational thinking is embedded within a spiritual and cultural framework. Dr. Yosef ben-Jochannan, a prominent Afrocentric scholar, consistently argued for the advanced scientific and mathematical knowledge of ancient African civilizations, a perspective that resonates deeply with the sophisticated binary logic inherent in Ifa [24]. This system not only predates modern computing but also offers a holistic model for understanding and interacting with the world, demonstrating that the principles of binary computation have ancient and diverse origins.

5. The Interconnectedness: Tracing the Binary Path

The striking structural similarities between the Ifa divination system, the I Ching, and Leibniz’s binary arithmetic invite a critical examination of their potential interconnections and independent developments. While Leibniz’s encounter with the I Ching is well-documented, the question of whether there was any direct or indirect transmission of binary knowledge from African systems like Ifa to the I Ching, and subsequently to Europe, remains a subject of scholarly debate and ongoing research. However, the existence of these highly analogous systems across continents and millennia suggests either a shared human cognitive predisposition towards binary logic or a more complex history of intellectual exchange than traditionally acknowledged [25].

To better understand these relationships, a comparative analysis of their core features is illuminating:

Feature	Ifa Divination System	I Ching	Leibniz’s Binary System
Origin	Ancient Yoruba (West Africa)	Ancient China	17th Century Europe
Core Elements	Single/Double Marks	Yin/Yang Lines	0s and 1s
Structure	256 Odu (2^{8})	64 Hexagrams (2^{6})	Base-2 Numeral System
Purpose	Divination, Wisdom, Decision-making	Divination, Philosophy, Cosmology	Mathematical Representation, Logic, Computing
Key Figures	Babalawo, Orunmila	Fu Xi, King Wen, Duke of Zhou, Shao Yong	Gottfried Wilhelm Leibniz

While direct historical evidence of a linear transmission from Ifa to the I Ching to Leibniz is scarce and debated, the possibility of ancient trade routes and cultural exchanges facilitating the movement of ideas cannot be entirely dismissed. Some scholars propose that the underlying principles of binary systems may have traveled across continents, adapting to local cultural contexts [26]. Alternatively, the independent development of such complex binary systems in geographically disparate regions could point to universal patterns of human thought and problem-solving. The mathematical elegance and efficiency of binary logic may have been discovered and rediscovered by different civilizations seeking to model complexity and make sense of their world.

Regardless of the exact historical pathways, the presence of these sophisticated binary systems in ancient African and Asian cultures challenges the notion of binary as an exclusively European invention. It underscores the importance of a decolonized approach to the history of science, one that acknowledges and values the intellectual contributions of diverse civilizations. The parallels between Ifa,

the I Ching, and Leibniz's work highlight a shared human intellectual heritage, where the fundamental principles of computation were explored and applied long before the digital age [27].

6. Modern Computing and Ancestral Intelligence

The journey from the ancient binary systems of Ifa and the I Ching to the foundational principles of modern computing is a testament to the enduring power and universality of binary logic. Gottfried Wilhelm Leibniz's formalization of the binary system, while independently conceived, found resonance and validation in the ancient Chinese I Ching, and its structural similarities to the Ifa system further broaden our understanding of its deep historical roots. Today, binary code is the indispensable language of all digital technologies, from microprocessors to the most advanced artificial intelligence algorithms. Every command executed, every piece of data stored, and every image rendered in our digital world is ultimately broken down into sequences of 0s and 1s [28].

Leibniz's vision of a universal characteristic, a logical calculus capable of resolving all disputes, finds its practical realization in the computational power enabled by binary arithmetic. His work, alongside the insights gleaned from the I Ching, provided a crucial intellectual bridge to the modern era of computing. However, recognizing the even earlier and equally sophisticated binary logic embedded within the Ifa divination system compels us to expand our historical perspective. Ifa, with its 256 Odu, represents a complex algorithmic system that processed information and guided decision-making through binary means, embodying a form of "ancestral intelligence" that predates and parallels contemporary computational thinking [29].

The concept of ancestral intelligence, as explored in *THE ORIGINAL AI: Ancestral Intelligence — The 256 Odu of Ifa, The Source Code That Predates Artificial Intelligence* [5], posits that the fundamental principles of intelligence, computation, and complex problem-solving are not solely products of recent scientific advancements but are deeply rooted in ancient human knowledge systems. Ifa serves as a prime example of such a system, demonstrating that sophisticated logical and mathematical frameworks were developed and utilized by African civilizations for centuries. By acknowledging these origins, we not only enrich the history of science but also gain a more holistic understanding of the diverse intellectual traditions that have contributed to our current technological landscape.

This expanded historical view encourages a re-evaluation of what constitutes intelligence and computation, recognizing that the foundational elements of modern AI have deep, ancient, and often overlooked roots in ancestral knowledge systems. The book *THE ORIGINAL AI* delves further into these connections, presenting Ifa as a powerful example of how ancient wisdom provides a blueprint for understanding and developing future intelligent systems.

7. Conclusion

The narrative of binary mathematics, often confined to the European Enlightenment, is significantly enriched and expanded when viewed through a global lens. This article has traced a compelling lineage, demonstrating how the fundamental principles of binary logic, so crucial to modern computing, find profound echoes and sophisticated applications in ancient non-Western traditions. From the intricate 256 Odu of the Yoruba Ifa divination system to the philosophical depth of the 64 hexagrams of the Chinese I Ching, these ancestral knowledge systems reveal an advanced understanding of algorithmic thinking and binary computation millennia before Gottfried Wilhelm Leibniz formalized his base-2 arithmetic. Leibniz's encounter with the I Ching served as a powerful validation of his own independent discovery, yet the deeper historical currents suggest a much broader and more diverse intellectual heritage for binary mathematics.

Recognizing the African origins of computing, particularly through the lens of Ifa mathematics, is not merely an academic exercise; it is a crucial step in decolonizing the history of science and technology. It challenges Eurocentric biases and highlights the ingenuity and intellectual contributions of African civilizations to foundational scientific concepts. The parallels between Ifa, the I Ching, and Leibniz's binary system underscore a universal human capacity for abstract thought and the development of complex logical frameworks. This interconnected history reveals that the foundational elements of modern artificial intelligence are not solely a product of recent innovation but are deeply rooted in ancestral intelligence, a concept thoroughly explored in *THE ORIGINAL AI: Ancestral Intelligence — The 256 Odu of Ifa, The Source Code That Predates Artificial Intelligence*.

Further interdisciplinary research is essential to fully unravel the complex historical and theoretical connections between these ancient binary systems and their impact on global intellectual history. By embracing a more inclusive understanding of the origins of computational thought, we can foster a richer, more accurate narrative of scientific progress and inspire new avenues for innovation rooted in diverse cultural wisdom.

For those seeking a deeper understanding of these profound connections and the concept of ancestral intelligence, we invite you to explore the comprehensive work presented at OrishaUniversity.com, home of *THE ORIGINAL AI*.

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About the Author

Ajarn Shaman Shu (Oluwo Jolaoso Osainbola) is a #1 bestselling author, initiated Babalawo, and founder of OrishaUniversity.com. He is the author of the 22-volume *Yoruba Spiritual Reparations Series*. His work bridges traditional Yoruba-Ifa theology, African intellectual history, and contemporary scholarship to restore the spiritual and cultural identity of the African diaspora.

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